

IGC - 2011
First Circular

17th Convention of the Indian Geological **Congress and International Conference**

on

***New Paradigms of Exploration and
Sustainable Mineral
Development: Vision 2050***
(NPESMD 2011)

10-12 November 2011



Organised by

The Department of Applied
Geology
Indian School of Mines,
Dhanbad



Jointly in association with

Indian Geological Congress,
Roorkee



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PROLOGUE

Mineral and energy resources are the ingredients of nearly all products that mankind use everyday. These resources must go through a stages or processes before usable products can be generated. Expansion of our reserves and resources base through exploration is a part of our sustainable growth strategy. The rapid economic growth of India is faced with increasing challenges from the raw materials, energy and power sectors. With the growing need for rapid expansion in infrastructure development and GDP growth, the necessity of minerals, metals, hydrocarbons and power has become larger than ever. Over the present decade tremendous advancements have been made in the fields of mineral exploration and developments worldwide in terms of understanding ore deposits in relationship to external and internal processes of the earth, exploration techniques, instrumentation, sustainable development and framing of mineral policies. Phenomenal developments have similarly been achieved in the hydrocarbon industry, to the effect of improved production, new findings of oil and gas reserves and a better understanding of petroleum systems. Consumption of water has also increased many folds to meet the demand of agricultural and industrial production. It is in this context, the Department of Applied Geology, Indian School of Mines, Dhanbad in association with Indian Geological Congress, Roorkee, is jointly organising an International Conference on “New Paradigms of Exploration and Sustainable Mineral Development : Vision 2050 (NPESMD 2011) and the 17th Convention of the Indian Geological Congress” at Indian School of Mines, Dhanbad from 10th to 12th November 2011 with primary aim to focus on issues related to the country’s growing needs mineral of raw materials, energy and power and also to foster a strong cooperation between industry, academia and research institutions. The convention will also deliberate on conservation of raw material resources, health, security & safety and environmental safeguards to enhance the quality of life and fostering innovation.

VENUE

Indian School of Mines (ISM) is a premier academic institution, established by the Government of India in 1926 on the pattern of Royal School of Mines, London with two faculty Departments, viz. Mining Engineering and Applied Geology. Development of ISM since last eight decades has undergone rapid expansion in terms of number of faculty departments, students intake, academic programmes, R&D activities, collaborations, industry-institution interactions, equipments and laboratories. The Department of Applied Geology established in 1926, the year of inception of ISM, is the pioneering centre of teaching, training and advanced research in Applied Geology. The fundamental objective of the Department is to educate young persons for professional careers in the fields of Applied Geology, Petroleum, Mining and Mineral Sciences *and to develop in the students an urge to search, innovate and strive for growth and success with excellence*. The Department offers 5-year integrated M.Sc. Tech. Applied Geology with students intake through IIT JEE, 3-year M.Sc. Tech. Applied Geology with post B.Sc (Hons.) Geology students intake through All India ISM Entrance Examination, 2-year M.Tech in Mineral Exploration, Engineering Geology, Petroleum Exploration with post M.Sc./M.Sc. Tech students intake through All India ISM Entrance Examination, and Ph.D. programmes in all branches of geology. It imparts instructions & training in Applied Geology to students from all over India, as well as to students from abroad. The Department has in its roll a team of highly specialized & talented academics & supporting technical staff. Long-range goal of the Department is to establish itself as a centre of excellence in Applied Geology with special reference to Mining Geology, Mineral Exploration, Petroleum Exploration and Engineering Geology.





Teaching, scientific and research contributions and achievements of the Department over the years have received due recognition with substantial research support from the University Grants Commission. It has recognised the disciplines of Mineral Exploration and Structural Geology as the thrust area of academic pursuits in the Department of Applied Geology under its COSIST Programme (1986-1991)






and Precambrian Geology and Metallogenesis as the thrust area of coordinated research activities under Special Assistance Programme (DRS in 1987), DSA Phase-I (1990; 1992 to 1997) and DSA Phase-II (1998-2003). The Department had received grant under FIST Programme of DST (2003 onwards). Various funding agencies, viz. MHRD, DST, CSIR, AICTE, MOES, DAE, MoM, European Commission, UNESCO among others have provided R&D grants to the Department. Internationally acclaimed R&D activities of faculty members of the Department have been instrumental in solving many longstanding problems in earth sciences and to understand various geological processes operating in and around the earth. The Department, being the premiere earth science centre, pursues its R & D activities through collaborations with wide range of national and international academic bodies and industries. Faculty members of the Department keep engaged in guiding research programmes (with both full-time scholars and part time registrants from industry and other organisations) leading to PhD degree in Applied Geology and conducting various R&D activities in various fields of specialisation. Several research groups of the Department include: (i) Mining Geology, Mineral Exploration, Geostatistics and Coal Geology; (ii) Structural Geology, Isotope Geology and Precambrian Geology; (iii) Engineering Geology, Hydrogeology and Environmental Geology; (iv) Sedimentology, Paleontology and Hydrocarbon Exploration; (v) Petrology, Mineralogy and Geochemistry; and (vi) Remote Sensing and GIS. The Department also organizes conferences, seminars and workshops and provides training programmes, executive development short-courses, refresher courses, consultancy and testing services, both at international and national levels; it has developed a very strong Industry-Institution relation, which is unique in the country. The Department houses an excellent treasure trove Geological museum, which is one of the oldest and the richest in the country in terms of its collections, exhibits, models and displays.

About the IGC

The Indian Geological Congress, founded in 1976, was registered as a scientific society in December 1990 under the Societies Registration Act 1860. It is now a forerunner among the scientific societies in the area of earth sciences. Having made all-round development and notable expansion in scientific activities, the IGC continues to provide regular biennial meeting platforms, through its Conventions, held in different parts of the country, to earth scientists, technologists and engineers, and to all those concerned with the application of earth science knowledge to any sector of industrial development. In addition, the IGC offers several other programmes, such as: (i) Foundation, Professor Jhingran, & Professor Prem Bahadur Verma Memorial Lectures, (ii) Executive development courses, and training programmes, (iii) National and international symposia, seminars, workshop, conferences, etc., and (iv) Awards on outstanding essays & research contributions by earth science students. It celebrated its 25th Anniversary during the years 2001-2002 in a befitting manner.

To achieve these goals, the IGC religiously follow the nine point agenda as given by our Past President, Dr. S. Asokan. It includes:

-  Focus on energy needs of the country – Coal-bed methane, and renewable and non-renewable sources.
-  Address issues related to geo-environmental influence and implication of linking the rivers to meet water needs of the nation, including dams and other impounding structures.
-  Redirect the thrust towards exploration and bringing in use marginal and sub-marginal mineral deposits with innovation and research.
-  Make IGC's presence felt in formulating National Policies on mineral and fossil fuel development (both on-shore and off-shore), and the acts and rules thereof.

-  Use of geological knowledge in minimising/ mitigating natural hazards, e.g., earthquakes, tsunamis, landslides, etc.
-  Make graduate/ post-graduate level (geosciences) curriculum relevant to the needs of the country and facilitate generation of “ready” and “fit-for-purpose” geoscientists from the universities and institutes.
-  Develop a healthy, vibrant and useful industry–academia partnerships for commercial solutions.
-  Serve as a link between the society, academia, industry, government, and professional geoscientists.
-  Strive to enlist all geologists and geoscientists of the country as members of IGC.

The IGC organised its 14th Convention with a focal theme **“Earth Science: Its Relevance to Society”**, from Dec. 2-4, 2005, including 10th Professor Jhingran Memorial Lecture. The **15th Convention** with a focal theme **“Geoexploration and Metal Mining: Vision 2025”**, was held from February 2-4, 2007 in Karnatak University, Dharwad, and the last one, that is 16th, in National Geophysical Research Institute, Hyderabad, with focal theme **“Climate Change and Role of Geoscientific Community to Counter its Impacts”**, under the Convenership of Dr. V.P. Dimri, Director, NGRI. For more information on IGC, log on **“www.igcindia.net”**.

The IGC programmes have helped galvanising India and stepping up earth science research and education in traditional and new areas, such as sustainable development of domestic mineral industry, and technologies for geoexploration and mineral resources appraisal and management, energy & water security, medical geology, natural hazard mitigation and risk reduction, mineralo-herbal products of the three heritage systems of medicine, multi-faced development of earth science education, understanding and monitoring the consequences of climate change, and several other thrust areas of research.

Tentative technical programme of the 17th Convention and the associated NPESMD-2011 is given in the following section. The President and the members of IGC Executive Council look forward to working closely with the IGC members and all other friends of earth science fraternity in India & abroad, who are interested in developing the knowledge and research advancements of geosciences.

TECHNICAL PROGRAMME

Convention Themes

- Metamorphism and Tectonism of Indian cratons
- Magmatic Episodes over the Sub-continent
- Engineering Geology: Applications to environment protection & hazards mitigation
- The Himalayan glaciers versus climate change
- Environment protection crucial to human existence: A National Agenda.

Themes of the International Conference

- Energy Geology of India (Hydrocarbons, Coal, CBM, Shale Gas, Uranium and Thorium)
- Mineral raw-materials security for ferrous, non-ferrous, and allied industrial sectors
- Typomorphic characteristics of Indian lead, zinc, copper, gold, nickel, diamond, PGE deposits
- Potential of industrial minerals and gemstones in India

- Advances in mineral conservation and beneficiation technologies and their role in sustained mineral development and utilization
- Water resources, policy and management
- Decisive mineral policy
- Mineral resources of SAARC region and possibility of developing co-operative mineral-based industries
- Metallogenic epochs and ore-forming environments over the Sub-continent
- Whither geoscience education in India : Its role in societal and economic development of India.

Invitation to Participate

The Organising Committee extend warm and cordial invitation to earth scientists, mining & mineral engineers, environmentalists and other specialists, including petroleum geologists, exploration geologists, hydrogeologists and engineering geologists to share the platform of the IGC's 17th Convention (IGC-2011) and help find satisfactory solution to problems related to the focal theme **“New Paradigms of Exploration and Sustainable Mineral Development : Vision 2050”**. Equally relevant are the sub-themes of the Convention & the Conference in the present context of water and energy securities, something vital that we ought to give to future generation of human-kind.

Sustained economic and social development will ever demand assured supplies of mineral raw-materials for all times to come. Earth scientists and mineral engineers are specially invited to participate, discuss and bring forward emerging technologies for ore deposits investigations and mineral resource evaluation. There would be a special focus on energy and water securities in the context of the Indian scenario – the two great challenges before the earth scientists of our country in the twenty-first century.

In addition, there would be a number of other technical sessions to debate environmental safeguards, which are crucial to human existence, and evaluation of quality and standard of teaching and research in areas of geosciences in Indian universities. There is paramount need its needs for upgradation & diversification of courses to meet future demands of geoscientists for space and ocean-bed exploration.

As is normally the case, the Convention will have keynote addresses and lectures on specialized topics, IGC Awards, and also very special function to present IGC Academic Awards to former ISM Geo-academics and Distinguished Alumni of the Geo-Faculties.

Hopefully, there will be provision for financial support for travel and registration fee waivers to the deserving members of IGC and specially-invited scientists. It's the time to plan your contribution and enrolment as IGC member to win awards and avail concession in registration fee. Finally, we suggest you to fill up the registration form attached to this circulation and return it to the Convention Secretariat address provided at the end of this Circular.

CALL FOR ABSTRACTS/FULL PAPERS

Authors are requested to contribute technical papers relevant to the conference themes. Full papers will be accepted after peer-review and published in Special issue of the Journal of Indian Geological Congress. The authors are advised to submit Abstracts (of about 500 words) on or before 30th June 2011 and MS of full paper by 31st July 2011 in the standard format of the Journal of the Indian Geological Congress (Refer a recent issue). Full papers in MS word containing texts and figures may be submitted through e-mail attachments to ***ism.geology@yahoo.com*** or by sending a CD by courier or speed post to the Organizing Secretary of the Convention.

IGC Awards

As a part of its promotional activities for the development of earth science-related technologies, growth of geosciences in general and spread of accruing societal benefits, the Organising Committee, on behalf of the Executive Council of IGC, has great pleasure in announcing the following awards prizes for poster contributions to the Poster Session:

First Prize	Rs. 5000/-	One Award
Second Prize	Rs. 3000/-	Three Awards
Third Prize	Rs. 2000/-	Five Awards

Geological Survey of India Sesquicentennial Commemorative Award

The GSI cash Award of Rs. 5,000/- in value will be given, subject to the fulfillment of the following conditions, along with citation to the contributor of the paper, adjudged as the best among the research papers contributed to the event. If there are more than one authors of the best paper, the cash award will be given to the first author along with citation, including citation to the other authors as well.

Conditions for Awards

- The awardees should be members of IGC,
- Should submit award winning full paper within one month from the date of announcement of the award, and
- The author(s) should certify that the paper is of original contribution and has not been published elsewhere.

The papers will be peer-reviewed and published in IGC Journ. The award will accompany the certificate and the citation.

Besides the above awards, the IGC also intends to honour former academics and distinguished alumni of the Departments of Applied Geology and Applied Geophysics by presenting Academic and Distinguished Service Awards.

OFFICIAL LANGUAGE

The official language of the Convention will be English

FURTHER INFORMATION

For detailed information, please visit the ISM web site “www.ismdhanbad.ac.in” or IGC website “www.igcindia.net”

MARKER DATES

Return of pre-registration form attached to this circular	January 15, 2011
Despatch of Second Circular	March 31, 2011
Return of registration form appended with the Second Circular	May 31, 2011
Submission of Paper Abstract	June 15, 2011
Submission of MS of Full Paper	July 15, 2011
Early bird registration deadline	July 31, 2011

Communication for acceptance of peer reviewed papers	August 31, 2011
Intimation about financial assistance for travel/ registration fee/ accommodation waivers only to deserving members of IGC and to specially invited scientists	October 05, 2011
Date of publication of full paper in special issue of IGC Journal	October 10, 2011

REGISTRATION FEE

Foreign Delegates : US \$ 250.00 (before 31.07.2011) and US \$ 300.00 (after 31.07.2011)

Accompanying person: US \$ 100.00
of Foreign Delegates

Delegates from : US \$ 150.00 (before 31.07.2011) and US \$ 175.00 (after 31.07.2011)
SAARC Nations

Indian Delegates : Rs. 6000/- (before 31.07.2011) and Rs. 7000/- (after 31.07.2011)
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Research Scholars : Rs. 2000/- (before 31.07.2011) and Rs. 2500/- (after 31.07.2011)
Students : Rs. 500/- (before 31.07.2011) and Rs. 750/- (after 31.07.2011)

Spot Registration

US \$ 400.00

US \$ 200.00

Rs. 10,000.00

Rs. 8,000.00

Rs. 3,000.00

Rs. 1,000.00

Note: *Individual IGC members will be allowed to avail 50% discount.*

ACCOMMODATION

A limited number of accommodations will be available for invited guests in the Institute's Senior Academic Hostel and Executive Development Centre and guesthouses of nearby organizations on payment basis. Delegates can book their accommodation in hotels (names and telephones given below) directly under intimation to the conference secretariat for which chargeable tariffs may range from Rs. 800/- to Rs. 5000/- per day.

Hotel Names & Telephone

Hotel Sushant International	(0326-2200616)
Hotel Seventeen Degree	(09234669201)
Hotel Skylark	(0326-2305384)
Hotel Blackrock	(0326-2302027/2303734)
Hotel Castle	(0326-2302027)
Hotel V.I.P.	(0326-2303203)
Hotel Zeal	(0326-2312363)
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Hotel Ratna Vihar	(0326-2311018)
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**17th Convention of the Indian Geological Congress and International Conference
on
New Paradigms of Exploration and Sustainable Mineral Development
: Vision 2050
(NPESMD 2011)**

10-12 November 2011

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Tel: +91-326-2296617 ; 2235271; Cell : +919431121653

IGC Membership Enrolment

You are invited to enroll as a member of IGC and claim several benefits. Current subscription details and format of application form are provided hereunder.

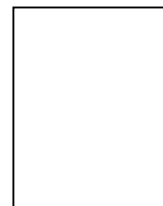
INDIAN GEOLOGICAL CONGRESS

APPLICATION FOR MEMBERSHIP

To,

The Secretary,
Indian Geological Congress,
Post Box No. 114,
402/1, 35 A, Civil Lines,
ROORKEE – 247 667 (INDIA)

Phone : 01332-277827 (O)
Indicom : 09219414329
Fax : 01332-277827
E-mails : igcroorkee@ymail.com
igcroorkee@gmail.com



I desire to be enrolled as a *Life Member/ *Annual Executive Member/ *Student Member/
*Subscriber of the Indian Geological Congress. (Strike off whichever s is not applicable).

1. Full Name (in capital letters) (Surname first)
.....
2. Name as you wish to be written in postal address
.....
3. Date and Place of Birth
4. Nationality
5. Profession
6. Academic Qualifications
7. Official Address
.....
.....
.....Pin Code :
- Phone :E-mail.....
Fax :
8. Mailing Address
.....
.....
.....Pin Code :

Continues on reverse

Phone :E-mail.....

Fax :

9. Enclosures: Bank Draft/ * Cheque/ Cash

No....., Dated For Rs.....

..... on (Bank/Branch).....

Date :

Place :

(Signature of Applicant)

Signatures of two members, who recommended for election as a Life Member/ Annual Executive Member/ Student Member/ Subscriber

Signature
Membership No.
.....

Signature
Membership No.

* Rs. 50.00 bank commission should be added on each cheque in case of outstation Indian cheques. Remission from abroad should be payable in US dollars in India.

The admission fee and annual subscription rates for various categories of members are noted below :-

Kind of membership		Subscription
Admission fee	:	Rs. 100/- (payable along with application for membership and subscription) or US \$ 20.00 for foreign applicants.
Life Member	:	Rs. 2000/- (Foreign : U.S. \$ 150.00)
Life Member	:	Rs. 1000/- (Foreign: U.S. \$ 100.00)
(Above 60 yrs. of age)		
Annual Member	:	Rs. 200/- (Foreign U.S. \$ 20.00) per annum
Student Member	:	Rs. 100/- per annum
Subscriber	:	Rs. 300/- per annum (U.S. \$ 30)
Institutional Member	:	Single payment of Rs. 25,000/- or U.S. \$ 2500.00 for foreign institutions

FOR OFFICE USE ONLY

Membership No. Receipt No. Dated.....

Member advised of his/her election and copy of the rules sent to him on

Signature

Hony. Secretary